

NATIONAL CONFERENCE ON THE ROLE OF PHYTOCHEMICALS IN FUTURISTIC DEVELOPMENTS AS SMART MATERIALS

IEC-Seminar
(NCPSM-2023)

30th November – 1st December, 2023

Starts at 9am



Organized by the

Department Of Chemistry, CEG CAMPUS,
Anna University, Chennai - 600 025, Tamil Nadu



Theme of the Conference

The objective of the NCPSM-2023 conference is to explain phytochemical smart materials and their implementation towards the conservation and use of medicinal plants for health-care and other remedial purposes, as well as to acquire in-depth information about medicinal plants as smart materials through their applications in various fields of material science and engineering. In addition, this is an excellent occasion to discuss the academic development and expansion of phytochemicals in contemporary trends such as 3D printing and herbal coatings for enhanced medicinal and therapeutic applications. This technical program features, invited lectures by eminent experts and provides a forum for researchers, scientists, faculty, and industry representatives to discuss the most recent innovations, trends, research aspects, practical challenges, and solutions in medicinal plants as smart materials.

Sub-Themes of the conference

- Phytochemicals in cardio vascular disease (cvd) cure
- Technology of phytochemicals
- Phytochemicals as life care products
- Bio-prospecting of phytochemicals
- Separation technology for phytochemicals
- Phytochemical biotechnology
- Electrical engineering of phytochemicals
- Industrial chemistry of phytochemicals
- Evaluation of phytochemicals for ayush applications
- Ayush and allopathy – an integrated approach

About National Medicinal Plant Board (Ministry of AYUSH, Government of India)

The Government of India has formed the National Medicinal Plants Board (NMPB) to manage all aspects pertaining to medicinal plants and support policies and programs for expanding trade, export, conservation, and cultivation. The National Medicinal Plants Board (NMPB), which is currently under the Ministry of AYUSH (Ayurveda, Yoga & Naturopathy, Unani, Siddha & Homoeopathy), was established by the Indian government on November 24, 2000, with the goal of promoting the medicinal plant industry. The growth of the sector for medicinal plants is the primary goal of NMPB, which is accomplished through good collaboration across numerous ministries, departments, and organizations for the implementation of policies and programs on medicinal plants.

Deliberation Talks of the Conference

- Role of phytochemicals in cardio vascular disease cure- **Dr. D. RAJAGOPAL**, Professor, Department of chemistry, VIT
- Modern technology in phytochemicals- **Dr. M. JAGANMOHAN**, Professor, Department of Chemistry, IITM
- Medicinal plants of ayush systems of medicine- issues and challenges
–**Dr. R. MURUGESWARAN**, Deputy director, National medicinal plants board.
- Phytochemicals as life care products- **Dr. A. RAJENDRAN**, Life care phyto labs.
- Bio-prospecting of medicinal plants- **Dr. PARIMELAZHAGAN THANGARAJ**, Professor and Head, Department of Chemistry, Bharathiyar University.
- Application of chromatography in phytochemicals- **DR. R. LAKSHMI SUNDARAM** Assistant Professor, Sri RamaChandra Faculty of Pharmacy
- Effect and efficacy of phytochemicals influenced by electrical pulses- **DR. V. GOWRI SREE**, Associate Professor, Department of EEE, Anna University
- Impact of phytochemicals on diverse sectors- **Dr. K. GEETHA** Associate Professor and Head Department of Chemistry, Muthurangam Govt Arts College, Vellore
- Invitro conservation and elicitation of secondary metabolites in medical plants- **Prof. C. RAJASEKARAN**, Dept of Biotechnology, School of Bio Sciences and Technology, Vellore Institute of Technology

Brief Profile of the Department

The Department of Chemistry is located at the College of Engineering, Guindy Campus of Anna University, Chennai. The Department has been offering M.Sc. (Applied Chemistry) and Ph.D. programs since 1975. M. Phil. (Chemistry) program was started in 1980 and M. Tech. (Polymer Science and Engineering), as an inter-disciplinary program, in 1995. "Chemistry ought to be not for chemists alone" quotes Miguel de Unamuno. The Department has been committed to the dissemination of inter-disciplinary Chemistry knowledge through evolving and innovative teaching-learning process, not just among the postgraduate students, but also to the budding Engineers and Technologists of the University Departments in CEG. Engineering Chemistry theory and laboratory courses are offered for first year B.E. and B. Tech programme and the students are also guided in inter-disciplinary projects involving materials development and analysis. The Department has been receiving infrastructure and research grants from DST-FIST, UGC-SAP (DRS), DST-PURSE, UGC-X, XI & XII plans and UGC-CPEES schemes. Sophisticated analytical Instrumentation facilities established through the grants include, GC, GC-MS, HPLC, DRS - UV-Vis Spectrophotometer, TPD and TPR, ATIR, TOC, TGA, UTM and FE-SEM. The Department ranks among the best in the University with more than 300 doctorates, 1500 research publications and 100 sponsored research projects, since inception.

About Anna University

Unitary Anna University was founded on September 4, 1978. It is the Asia's oldest technical institution founded in 1794 and the oldest one established outside Europe. As per QS World Ranking 2024, Anna University secured global rank of 427, which is 10th place among the Indian Universities. In the country-wide NIRF ranking 2023, Anna university ranks 18 in the overall category and 14 in the universities category. Anna university gets 3.54 rating with A++ grade from NAAC. First Microsatellite (ANUSAT) launched by an educational institution in April 2009 by PSLV-CA C12. It offers higher education in Engineering, Technology, Architecture, and Applied Sciences relevant to society's current and future requirements. It promotes research, knowledge dissemination, and academic-industrial interaction. Four well-known technical institutes in Madras (now Chennai)—College of Engineering (CEG), Alagappa College of Technology (ACT), Institute of Technology (MIT), and School of Architecture & Planning (SAP)—formed the University. By affiliating all Tamil Nadu engineering colleges in 2001, Anna University was reconverted to a unitary type in 2010. In 2012, Anna University again became an affiliating university by uniting all Tamil Nadu engineering colleges under one roof to ensure superior engineering education. Anna University includes 13 Constituent Colleges, 3 Regional Campuses, and 504 Affiliated Colleges (Government, Government Aided, and Self-Financing).

Organising committee

CHIEF PATRON: Dr. R. VELRAJ
Vice-Chancellor
Anna University

PATRON: Dr. J. PRAKASH
Registrar
Anna University

CHAIR: Dr. L. SUGANTHI
Dean
CEG Campus

CONVENOR : Dr. N. RAJENDRAN
Prof & Head
Dept. of Chemistry
AU-CEG

CO-ORDINATOR: Dr. S. ANANDAKUMAR
Associate Professor
Dept. of Chemistry
AU-CEG

PARTNER : Dr. G. NANDHINIDEVI
Director, CTTM
Anna university.

ADVISORY COMMITTEE MEMBERS:

Dr. M. UMAPATHY
Dr. G. R. RAJARAJESWARI
Dr. S. ANGAYARKANNY
Dr. P. MUTHUMAREESWARAN
Dr. P. SANGEETHA
Dr. MURALI RAJAN

Who Can Apply

Faculty members, Research Scholars, and Postgraduate students of academic institutions, colleges, and universities, as well as Scientists and Technologists from Research Laboratories, R&D Institutions, and Industrial R&D Faculty are all warmly welcomed to join this conference.

For any queries regarding the Conference, please contact the advisory committee:

- **SWATHI, phone: 8838410984**
- **AKHIN, Phone: 6380727585**
- **RAJEEV, Phone: 7871850218**

Registration Form: Free Registration

Two Day IEC-

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PHYTOCHEMICALS IN FUTURISTIC
DEVELOPMENTS AS SMART MATERIALS
(NCPSM-2023)**

30th Nov –1st Dec, 2023

at

**Hall of 1960, Department of Chemistry,
Anna University, Chennai-600 025**

Name: _____

Designation: _____

Organization: _____

Mobile: _____

E-mail: _____

Please send a duly filled, signed and scanned copy of the registration form to ncpsm23@gmail.com. Research scholars and students must send a scanned copy of their ID card or Bonafide Certificate from Principal/Head of the Department.

Complete the Google form:

<https://forms.gle/TsUJY712vzpEE673A>

Date: _____

Signature _____